

COMBINED DECLARATION AND POWER OF ATTORNEY
(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL,
DIVISIONAL, CONTINUATION, OR CIP)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type: (check one applicable item below)

☒ original
☐ design
☐ supplemental

NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application do not check next item; check appropriate one of last three items.

☐ national stage of PCT

NOTE: If one of the following 3 items apply then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR CIP.

☐ divisional
☐ continuation
☐ continuation-in-part (CIP)

INVENTORSHIP IDENTIFICATION

WARNING: If the inventors are each not the inventors of all the claims an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below next to my name, I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

**COMPLEX FILTERING/AGC RADIO RECEIVER ARCHITECTURE
FOR LOW-IF OR ZERO-IF**

SPECIFICATION IDENTIFICATION

the specification of which: (complete (a), (b) or (c))

- (a) ☒ is attached hereto.
- (b) ☐ was filed on [DATE] as Serial No. ____; or
☐ was filed on [date], under Express Mail No. ____, as Serial No. not yet known,
and was amended on ____ (if applicable).

NOTE: Amendments filed after the original papers are deposited with the PTO which contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 CFR 1.67.

- (c) ☐ was described and claimed in PCT International Application No. ____; filed on ____ and as amended Under PCT Article 19 on ____ (if any).

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ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information

- ☒ which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56;
(also check the following items, if desired)
- ☒ and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable examiner would consider it important in deciding whether to allow the application to issue as a patent; and
- ☐ In compliance with this duty, there is attached an information disclosure statement in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. § 119)

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

- (d) ☐ no such applications have been filed
- (e) ☒ such applications have been filed as follows

NOTE: Where item (c) is entered above and the International Application which designated the U.S. claimed priority check item (e), enter the details below and make the priority claim.

A. PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119

Country (or Indicate if PCT)	Application Number	Date of Filing (day/month/year)	Priority Claimed Under Section 37 USC 119
Canada	2,289,823	11/15/99	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

**ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

1. _____
2. _____
3. _____

NOTE: *If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CIP APPLICATION for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.*

POWER OF ATTORNEY

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number)

George M. Thomas, Reg. No. 22,260; James W. Kayden, Reg. No. 31,532; Scott A. Horstemeyer, Reg. No. 34,183; Stephen R. Risley, Reg. No. 35,659; Jeffrey R. Kuester, Reg. No. 34,367; Daniel J. Santos, Reg. No. 40,158; Daniel R. McClure, Reg. No. 38,962; Robert E. Stachler II, Reg. No. 36,934; David P. Kelley, Reg. No. 17,420; Reg. No. 41,344; David R. Risley, Reg. No. 39,345; Jon E. Holland, Reg. No. 41,077; Dan R. Gresham, Reg. No. 41,805; J. Scott Culpepper, Reg. No. 41,692; M. Paul Qualey, Reg. No. 43,024; Robert P. Biddle, Reg. No. 35,826; Robert A. Blaha, Reg. No. 43,502; Jennifer M. Gruber, Reg. No. 42,601; Raymond W. Armentrout, Reg. No. 45,866; Cynthia J. Lee, Reg. No. 46,033; N. Andrew Crain, Reg. No. 45,442; Monica A. Hyson, Reg. No. P46,790; Sami O. Malas, Reg. No. 44,893; Marianne H. Parker, Reg. No. 46,169

(check the following item, if applicable)

- ☐ Attached as part of this declaration and power of attorney is the authorization of the above-named attorney(s) to accept and follow instructions from my representative(s).

SEND CORRESPONDENCE TO

Daniel J. Santos
THOMAS, KAYDEN, HORSTEMEYER
& RISLEY, L.L.P.
Suite 1750
100 Galleria Parkway N.W.
Atlanta, Georgia 30339-5948

DIRECT TELEPHONE CALLS TO:

Daniel J. Santos

(770) 933-9500

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

NOTE: Carefully indicate the family (or last) name as it should appear on the filing receipt and all other documents.

Full name of sole or first inventor

Neil Birkett

Inventor's signature

Date:

Sept 18, 2000 Country of Citizenship Canada
Residence: 16 Dallaire Crescent, Richmond, Ontario K0A 2Z0
Post Office Address: 16 Dallaire Crescent, Richmond, Ontario K0A 2Z0

Full name second joint inventor, if any

James Cherry

Inventor's signature

Date:

SEP 18 2000 Country of Citizenship Canada
Residence: 136 Renfrew Avenue, Ottawa, Ontario K1S 1Z8
Post Office Address: 136 Renfrew Avenue, Ottawa, Ontario K1S 1Z8

Full name third joint inventor, if any

William Martin Snelgrove

Inventor's signature

Date:

2000 Sept 26 Country of Citizenship Canada
Residence: 603-90 Sherbourne Street, Toronto, Ontario M5A 2R1
Post Office Address: 603-90 Sherbourne Street, Toronto, Ontario M5A 2R1

Full name fourth joint inventor, if any

Florinel Balteanu

Inventor's signature

Date:

Sep 18, 2000 Country of Citizenship Canada
Residence: 69 Kimberwick Crescent, Ottawa, Ontario K1V 0W7
Post Office Address: 69 Kimberwick Crescent, Ottawa, Ontario K1V 0W7

CHECK PROPER BOX(ES) FOR ANY OF THE FOLLOWING ADDED PAGE(S)
WHICH FORM A PART OF THIS DECLARATION

☐ Signature for subsequent joint inventors. Number of pages added
_____.

* * *

☐ Signature by administrator(trix), executor(trix) or legal representative for deceased
or incapacitated inventor. Number of pages added
_____.

* * *

☐ Signature for inventor who refuses to sign or cannot be reached by person
authorized under 37 CFR 1.47. Number of pages added
_____.

* * *

☐ Added pages to combined declaration and power of attorney for divisional,
continuation, or continuation-in-part (CIP) application.

☐ Number of pages added _____

* * *

☐ Authorization of attorney(s) to accept and follow instructions from representative.

* * *

**If no further pages form a part of this Declaration then end this Declaration
with this page and check the following item**

☒ **This declaration ends with this page**

RECORDATION FORM COVER SHEET PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE

(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying part(ies):

Neil Birkett
James Cherry
William Martin Snelgrove
Florinel Balteanu

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: Philsar Semiconductor Inc.
Street Address: 146 Colonnade Road
Nepean, Ontario K2E 7Y1

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other:

Execution Date: May 24, 2000

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: September 29, 2000

A. Patent application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Daniel J. Santos
Thomas, Kayden, Horstemeyer & Risley, L.L.P.
100 Galleria Parkway, Suite 1750
Atlanta, Georgia 30339-5948

6. Total number of applications/patents involved: [1]

7. Total fee (37 CFR 3.41) \$ 40.00

- ☐ Enclosed
☒ Authorized to be charged to credit card (authorization enclosed)

8. Deposit Account Number:

20-0778

(Attach duplicate copy of this page if paying by Deposit Account)

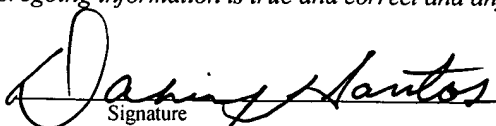
DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Daniel J. Santos

Typed Name



Signature

September 29, 2000

Date

Docket #:240703-1170

Total number of pages including cover sheet, attachments, and document: [3]

Mail documents to be recorded with required cover sheet information to:
Assistant Commissioner for Patents, Box Assignments
Washington, D.C. 20231

09/29/00
09/675513
JCE82 U.S. PTO

ASSIGNMENT

Whereas Neil A. BIRKETT; James A. CHERRY; Martin SNELGROVE; and Florinel BALTEANU (hereinafter "the Assignors"), whose full post office addresses are 16 Dallaire Crescent, Richmond, Ontario, K0A 2Z0, Canada; 136 Renfrew Avenue, Ottawa, Ontario, K1S 1Z8, Canada; 603 - 90 Sherbourne Street, Toronto, Ontario, M5A 2R1, Canada; and 69 Kimberwick Crescent, Ottawa, Ontario, K1V 0W7, Canada, have made an invention which is the subject of Canadian Patent Application 2,289,823 filed on November 15, 1999, and entitled **Complex Filtering/AGC Radio Receiver Architecture For Low-IF or Zero-IF** (hereinafter "the Patent Application");

Whereas Philsar Semiconductor Inc. (hereinafter "the Assignee"), whose full post office address is 146 Colonnade Road, Nepean, Ontario, K2E 7Y1, Canada, is desirous of acquiring the whole right, title and interest in and to the Patent Application, and the invention or inventions described therein;

Now therefore, in consideration of one dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Assignors hereby sell, assign and transfer to the Assignee, all their right, title and interest, in Canada and all other countries and jurisdictions throughout the world, in and to the Patent Application, and the invention or inventions described therein, including their corresponding right to claim priority from the Patent Application in any country or jurisdiction, including all their corresponding right, title and interest in and to any Patents which may issue therefrom, and including all right to sue for past infringement thereunder, all the said Patents to be held and enjoyed by the said Assignee to the full end of the term for which the said Patents are granted, as fully and entirely as the said Patents could have been held and enjoyed by the said Assignors if this Assignment had not been made.

The Assignors and the Assignee hereby authorize the firm of Gowling, Strathy & Henderson, whose full post office address is 160 Elgin Street, Suite 2600, Ottawa, Ontario K1P 1C3, Canada, to correct errors in this Assignment, or to insert any further identification or other information necessary or desirable to make this Assignment suitable for recordal in any Patent Office.

SIGNED at OTTAWA CANADA this 24 day of May 2000 2/3
(City/Town) (Country) (Date) (Month) (Year)

CA Morris
(Signature of Witness)

CHARLES MORRIS
(Name of Witness: Please Print or Type)

Neil A. BIRKETT

[Signature]
(Signature of Assignor)

SIGNED at OTTAWA CANADA this 24 day of May 2000
(City/Town) (Country) (Date) (Month) (Year)

CA Morris
(Signature of Witness)

CHARLES MORRIS
(Name of Witness: Please Print or Type)

James A. CHERRY

[Signature]
(Signature of Assignor)

SIGNED at Toronto CANADA this 23 day of May 2000
(City/Town) (Country) (Date) (Month) (Year)

[Signature]
(Signature of Witness)

ROBERT STRATTON
(Name of Witness: Please Print or Type)

Martin SNELGROVE

[Signature]
(Signature of Assignor)

SIGNED at OTTAWA CANADA this 24 day of May 2000
(City/Town) (Country) (Date) (Month) (Year)

CA Morris
(Signature of Witness)

CHARLES MORRIS
(Name of Witness: Please Print or Type)

Florinel BALTEANU

[Signature]
(Signature of Assignor)

The undersigned Assignee hereby accepts this Assignment.

SIGNED at OTTAWA, CANADA, this 24 day of MAY, 2000.
(City/Town) (Country) (Date) (Month) (Year)

[Signature]

(Signature of Witness)

Des Hickey

(Name of Witness: Please Print or Type)

PHILSAR SEMICONDUCTOR INC.

[Signature]

(Signature of Authorized Signing Officer)

CHARLES MORRIS

(Name of Authorized Signing Officer: Please Print or Type)

VP FINANCE / Admin & C.F.O.

(Title of Authorized Signing Officer: Please Print or Type)